

Togiak Fishery

Fishery Overall - Stranded Harvestable Fish



20-Year Average

2006-2015 Average

3,350 mt/year

4,985 mt/year

Togiak Gillnet - Stranded Harvestable Fish (mt)



2,180



mt/year

2006-2015 Average



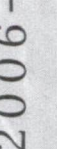
2015

7,484 (86%)



2016

8,555 (99%)



2017

5,455 (79%)

Sub by: Brett Verhulst

Decline of Exploitation Rate

Appendix B2.-Exploitation of Togiak herring stock, 1996–2016.

Year	Biomass	S-O-K Herring Equivalent	Dutch Harbor Food/Bait	Sac Roe			Total Harvest	Exploitation Rate
	Estimate ^a (short tons)			Gillnet ^b	Purse Seine ^c	Waste ^d		
1996	135,585	1,899	2,239	6,863	18,008		24,871	21.4%
1997	125,000		1,950	5,164	18,298	350	23,462	20.3%
1998	121,000		1,994	5,952	16,424	400	22,376	20.1%
1999	124,946	1,605	2,398	4,858	14,170	198	19,028	18.4%
2000	130,904		2,014	5,464	14,857	100	20,321	17.1%
2001	119,818		1,439	6,491	15,660	219	22,151	19.7%
2002	120,196	260	2,846	5,216	11,793	40	17,009	16.7%
2003	126,213	55	1,487	6,505	14,778	380	21,283	18.1%
2004	143,124		1,258	4,980	13,785	103	18,765	14.0%
2005	108,585		1,154	5,841	14,287	784	20,128	19.6%
2006	129,976		953	7,132	16,321	500	23,453	18.8%
2007	134,566		1,214	4,012	12,800	320	16,812	13.4%
2008	136,495		1,536	4,832	15,691		20,523	16.2%
2009	121,800		1,941	4,140	12,967		17,107	15.6%
2010	146,775		1,938	7,540	18,816		26,356	19.3%
2011	140,860		1,795	5,907	16,970		22,877	17.5%
2012	123,745		1,807	4,027	12,994		17,021	15.2%
2013	169,020		1,764	8,243	19,366	1,593	27,609	17.4%
2014	157,448		1,645	6,016	19,544	54	25,560	17.3%
2015	163,480		1,972	1,156	20,240	500	21,396	14.3%
20-year Avg.	133,977	955	1,767	5,517	15,888	396	21,405	17.5%
1996-04 Avg.	125,537	955	1,878	5,733	15,206	286	20,939	18.5%
2006-15 Avg.	142,417		1,657	5,301	16,571	593	21,871	16.5%
2016	162,244		208	80	14,799		14,879	9.3%

Decline of Togiak Gillnet Effort

Decline of Togiak Gillnet Harvest

Appendix B1.—Sac roe herring industry participation, fishing effort, and harvest, Togiak District, 1996–2016.

Year	Number of Buyers	Daily Processing Capacity ^a	Fishery Dates	Gillnet			Purse Seine			Total Harvest ^c		
				Effort ^b	Duration (hours)	Harvest ^c	Roe %	Effort ^b	Duration (hours)		Harvest ^c	Roe %
1996	19	4,850	5/3-5/8	461	18.0	6,863	11.1	268	2.4	18,008	9.0	24,871
1997	18	4,200	5/2-5/6	336	24.0	5,164	11.8	231	6.4	18,649	9.4	23,813
1998	15	2,475	4/29-5/10	152	46.0	5,952	12.5	123	16.5	16,824	9.6	22,776
1999	12	2,400	5/18-5/26	171	28.0	4,858	11.5	96	4.7	14,368	9.2	19,226
2000	12	2,100	5/6-5/14	227	67.0	5,464	10.6	90	15.8	14,957	10.1	20,421
2001	11	2,255	5/6-5/13	96	84.0	6,491	10.6	64	26.0	15,879	9.2	22,370
2002	8	1,920	5/3-5/13	82	102.0	5,216	10.9	37	57.5	11,833	9.3	17,049
2003	7	1,920	4/25-5/7	75	142.0	6,505	10.9	35	110.2	15,158	8.9	21,663
2004	6	2,150	4/29-5/9	54	162.0	4,980	10.4	31	78.0	13,888	9.5	18,868
2005	8	2,330	4/30-5/8	56	149.0	5,841	11.2	33	83.0	15,071	9.6	20,912
2006	7	2,060	5/12-5/21	49	143.9	7,132	10.8	28	113.0	16,821	9.2	23,953
2007	5	1,420	5/10-5/25	25	366.0	4,012	11.2	21	244.0	13,120	10.0	17,132
2008	7	1,950	5/16-5/31	27	312.0	4,832	11.4	28	292.0	15,691	8.4	20,523
2009	6	2,015	5/16-5/31	32	314.0	4,140	10.2	21	266.0	12,967	10.3	17,107
2010	6	2,690	5/11-5/27	35	338.0	7,540	10.1	26	266.0	18,816	9.7	26,356
2011	5	2,413	5/8-5/31	25	318.0	5,907	12.1	22	268.0	16,970	9.6	22,877
2012	4	1,970	5/14-6/1	18	534.0	4,027	12.1	16	328.0	12,994	9.4	17,021
2013	6	2,675	5/11-5/28	37	408.0	8,244	10.9	26	224.0	19,366	9.0	27,610
2014	6	3,065	4/27-5/13	24	412.0	6,016	11.9	17	412.0	19,544	9.7	25,560
2015	4	1,880	4/27-5/11	6	328.0	1,156	11.1	16	328.0	20,240	11.3	21,396
20-year Avg.	9	2,437		99	215	5,517	11	61	157	16,058	10	21,575
1996-05 Avg.	12	2,660		171	82	5,733	11	101	40	15,464	9	21,197
2006-15 Avg.	6	2,214		28	347	5,301	11	22	274	16,653	10	21,954
2016	4	2,530	4/17-5/2	3	366.0	80	12.2	17	306.0	14,799	12.3	14,879

^a Number of tons per day based on companies registered.

^b Total vessels fished.

^c Harvest total includes dead loss and test fishery harvest.

Decline of Dutch Harbor Gillnet Effort

Table 2.-Aleutian Islands Area Dutch Harbor herring food and bait fisheries historical summary for gillnet gear, 2001-2016.

Year	Harvest in Tons	Number of Vessels	Number Landings	Tons Per Vessel	Tons Per Landing	Price Per Ton	Exvessel Value (Thousands)	Exvessel Value Per Vessel (Thousands)
2001	105	6	25	18	4	\$300-500	\$52.7	\$8.8
2002	134	13	37	10	4	\$400	\$53.6	\$4.1
2003 ^a	108	13	23	8	5	\$400	\$35.0	\$2.7
2004	216	7	37	31	6	\$300	\$64.8	\$9.3
2005	0	0	0	0	0	\$300	\$0.0	\$0.0
2006	b	b	b	b	b	b	b	b
2007	b	b	b	b	b	b	b	b
2008	b	b	b	b	b	b	b	b
2009	b	b	b	b	b	b	b	b
2010	c	c	c	c	c	c	c	c
2011	c	c	c	c	c	c	c	c
2012	c	c	c	c	c	c	c	c
2013	c	c	c	c	c	c	c	c
2014	c	c	c	c	c	c	c	c
2015	c	c	c	c	c	c	c	c
2016	c	c	c	c	c	c	c	c
2001-2005								
Average	113	8	24	13	4	\$350	41	5

^a Twenty of 108 tons were not purchased due to spoilage.

^b This information cannot be released to due to state confidentiality requirements.

^c No participation.